

Prof. ŞİMŞEK DEMİR

Personal Information

Email: simsek@metu.edu.tr

Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey
1993 - 1998

Post Graduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey
1991 - 1993

Under Graduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
Turkey 1987 - 1991

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Noise analysis and low noise design of feed structures for active and passive antenna arrays, Middle East
Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1998

Post Graduate, Wideband mmic amplifier design, Middle East Technical University, Faculty of Engineering, Elektrik-
Elektronik Mühendisliği Bölümü, 1993

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 2013 -
Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
2006 - 2013

Assistant Professor, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
2000 - 2006

Lecturer, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, 1996 - 2000

Research Assistant, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
1991 - 1996

Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği
Bölümü, 2011 - 2013

Advancing Ineses

- Akın T., Demir Ş., PACKAGING OF RF MEMS SWITCHES AND PERFORMANCE IMPROVEMENT, Doctorate, İ.COMART(Student), 2019
- DEMİR Ş., Analysis and design of slow wave structure for backward wave oscillators, Post Graduate, D.ESER(Student), 2019
- DEMİR Ş., Development of a tuner topology for multiharmonic matching and implementation on tunable dual band power amplifier design, Doctorate, H.HÜSEYİN(Student), 2018
- DEMİR Ş., High power magnetron design and electron emission characteristics, Post Graduate, M.CEMAL(Student), 2018
- DEMİR Ş., An axially extracted virtual cathode oscillator design and characterization, Post Graduate, B.TİMUR(Student), 2018
- DEMİR Ş., Beam modulation in double gap virtual cathode oscillator, Post Graduate, İ.SEMİH(Student), 2018
- DEMİR Ş., Frequency and phase locking of oscillators and magnetrons, Post Graduate, I.SALUR(Student), 2018
- DEMİR Ş., Design of miniaturized Ku band narrowband cavity filter, Doctorate, Y.SEVİNÇ(Student), 2018
- DEMİR Ş., Implementation of direction finding with frequency diverse array, Post Graduate, A.TURHANER(Student), 2017
- AKIN T., DEMİR Ş., Design of an x-band 3-bit rf mems constant phase shifter, Post Graduate, A.KUZUBAŞLI(Student), 2016
- DEMİR Ş., Broadband microwave diode mixer design and implementation, Post Graduate, E.KOÇ(Student), 2016
- DEMİR Ş., Comparative design of millimeter wave RF-MEMS phase shifters, Post Graduate, E.KOBAL(Student), 2016
- DEMİR Ş., X-band high power gan power amplifier design and implementation, Post Graduate, A.İLKER(Student), 2016
- DEMİR Ş., Development of beam scheduling algorithm for frequency diverse array, Post Graduate, R.ÇETİNER(Student), 2015
- KOÇ S. S. , DEMİR Ş., Analysis of frequency diverse arrays for radar and communication applications, Doctorate, Ç.ÇETİNTEPE(Student), 2015
- DEMİR Ş., Design and implementation of a microwave cavity resonator for modulated backscattered wave, Post Graduate, A.AKKOÇ(Student), 2015
- DEMİR Ş., Medium power-wideband envelope tracking RF power amplifier design, Post Graduate, E.ŞİRİN(Student), 2015
- DEMİR Ş., YILDIRIM N., Design of high power waveguide limiter, Post Graduate, A.YILMAZ(Student), 2014
- DEMİR Ş., Design and realization of microstrip linear antenna array based on SIW (Substrate integrated waveguide) feed network, Post Graduate, A.ÖZGÜN(Student), 2014
- DEMİR Ş., Simulation and design of electron gun for travelling wave tube with particle in cell code, Post Graduate, F.ECE(Student), 2014
- DEMİR Ş., Experimental performance evaluation of direction finding by amplitude comparison for GSM applications, Post Graduate, S.KARADAĞ(Student), 2014
- DEMİR Ş., Modeling of time domain represented signals with multitone signals, Post Graduate, G.CANSIZ(Student), 2014
- DEMİR Ş., Countermeasure methods for high power microwave pulses, Post Graduate, M.KESKİN(Student), 2014
- DEMİR Ş., Assessment of shielding effectiveness by using electromagnetic topology method, Post Graduate, H.İBRAHİM(Student), 2013
- DEMİR Ş., PHASED ARRAY ANTENNA CALIBRATION AND EXPERIMENTAL VALIDATION, Post Graduate, A.YALIM(Student), 2013
- DEMİR Ş., Innovative approaches in Doherty amplifier design for higher efficiency and wider frequency bandwidth, Doctorate, N.ŞAHAN(Student), 2013
- DEMİR Ş., Identification of memory terms in a power amplifier, Post Graduate, E.DURSUN(Student), 2013
- DEMİR Ş., Improving the efficiency of microwave power amplifiers without linearity degradation using load and bias tuning in a new configuration, Doctorate, A.RONAGHZADEH(Student), 2013
- DEMİR Ş., YILDIRIM N., Design and realization of high power low loss combiners, Post Graduate, G.SUNA(Student), 2013
- DEMİR Ş., True-time delay structures for microwave beamforming networks in S-band phased arrays, Post Graduate, K.TEMİR(Student), 2013
- DEMİR Ş., X-band RF switch implementation in substrate integrated waveguide, Doctorate, T.ERDÖL(Student), 2012
- DEMİR Ş., Precise height estimation by differential amplitude measurement for an airborne CW doppler proximity sensor, Doctorate, A.VURAL(Student), 2012

DEMİR Ş., Low loss substrate integrated waveguide n-way power divider, Doctorate, P.MOHAMMADI(Student), 2012

DEMİR Ş., Linearization of RF power amplifiers by using memory polynomial digital predistortion technique, Post Graduate, G.ERDOĞDU(Student), 2012

DEMİR Ş., Broadband spatial power combining in coaxial medium, Post Graduate, Z.TANÇ(Student), 2012

DEMİR Ş., Broadband phase shifter realization with surface micromachined lumped components, Post Graduate, K.KAAN(Student), 2012

DEMİR Ş., X-band high power solid state RF switch, Post Graduate, K.GÜZEL(Student), 2012

DEMİR Ş., Design and implementation of wideband stripline circulators, Post Graduate, G.YILMAZ(Student), 2012

DEMİR Ş., A new approach for distributed amplifier design, Post Graduate, İ.GÖKHAN(Student), 2012

DEMİR Ş., Design and fabrication of a high gain, broadband microwave limiting amplifier module, Post Graduate, H.HÜSEYİN(Student), 2011

DEMİR Ş., Linearization of RF power amplifiers with memoryless baseband predistortion method, Post Graduate, T.KOLCUOĞLU(Student), 2011

DEMİR Ş., Modeling of asymmetric intermodulation distortion and memory effects of power amplifiers, Doctorate, A.HAYRETTİN(Student), 2011

DEMİR Ş., A conceptual evaluation of frequency diverse arrays and novel utilization of LFM CW, Doctorate, T.EKER(Student), 2011

DEMİR Ş., L-Band & S-Band CW Hybrid Gallium Nitride HEMT Power Amplifier Design, Post Graduate, A.AKTUĞ(Student), 2010

AKIN T., DEMİR Ş., Zero-level packaging of microwave and millimeterwave mems components, Post Graduate, İ.COMART(Student), 2010

DEMİR Ş., HMIC miniaturization techniques and application on an FMCW range sensor transceiver, Post Graduate, H.KORKMAZ(Student), 2010

AKIN T., DEMİR Ş., Reliability improvement of RF MEMS devices based on lifetime measurements, Post Graduate, O.DOĞAN(Student), 2010

AYDIN ÇİVİ H. Ö. , DEMİR Ş., X-band high power ferrite phase shifters, Post Graduate, H.İLHAN(Student), 2010

AKIN T., DEMİR Ş., Development of MEMs technology based microwave and millimeter-wave components, Post Graduate, Ç.ÇETİNTEPE(Student), 2010

DEMİR Ş., Wideband phase shifter for 6-18 GHz applications, Post Graduate, G.BOYACIOĞLU(Student), 2010

DEMİR Ş., Defected ground structure and its applications to microwave devices and antenna feed networks, Post Graduate, Ö.KILIÇ(Student), 2010

DEMİR Ş., Design and implementation of a broadband I-Q vector modulator and a feedforward linearizer for V/UHF band, Post Graduate, A.ÜNLÜ(Student), 2010

DEMİR Ş., Millimeterwave FMCW radar design, Post Graduate, D.İÇÖZ(Student), 2009

AKIN T., DEMİR Ş., NOVEL IMPEDANCE TUNER, PHASE SHIFTER, AND VECTOR MODULATORS USING RF MEMS TECHNOLOGY, Doctorate, M.ÜNLÜ(Student), 2009

DEMİR Ş., Design and implementation of low phase noise phase locked loop based local oscillator, Post Graduate, M.ALPEREN(Student), 2009

DEMİR Ş., S-band hybrid 4 bit phase shifter using cots components, Post Graduate, E.ERKEK(Student), 2009

DEMİR Ş., Cascaded, reactively terminated, single stage distributed 2-18 GHz amplifier, Post Graduate, O.EFE(Student), 2008

DEMİR Ş., CFAR detection in K-distributed sea clutter, Post Graduate, A.ÇETİN(Student), 2008

DEMİR Ş., Theory and design of microwave fet frequency triplers, Post Graduate, İ.BOZKURT(Student), 2008

DEMİR Ş., Range resolution improvement of FMCW radars, Post Graduate, S.KURT(Student), 2007

AKIN T., DEMİR Ş., Design and fabrication of RF MEMS switches and instrumentation for performance evaluation, Post Graduate, H.İBRAHİM(Student), 2007

ALATAN L., DEMİR Ş., Re-configurable microstrip patch antennas controlled by RF mems switches, Post Graduate, S.ONAT(Student), 2006

DEMİR Ş., X band 7 BIT MMIC phase shifter design, Post Graduate, E.ERÇİL(Student), 2006

DEMİR Ş., Millimeter wave MMIC amplifier linearization by predistortion, Post Graduate, B.ÇAĞLAR(Student), 2006

AKIN T., DEMİR Ş., Design and implementation of microwave lumped components and system integration using MEMS

technology, Post Graduate, E.UFUK(Student), 2006

DEMİR Ş., Multi-tone representation of arbitrary waveforms and application to the analysis of nonlinear amplifiers and feedforward linearizers, Post Graduate, A.MUTLU(Student), 2005

DEMİR Ş., TANIK Y., Design of an FM-CW radar altimeter, Post Graduate, Y.BARIŞ(Student), 2005

DEMİR Ş., MMIC vector modulator design, Post Graduate, M.ALTUNTAŞ(Student), 2004

DEMİR Ş., CMOS class-e power amplifier modelling and design including channel resistance effects, Post Graduate, İ.DEMİR(Student), 2004

AKIN T., DEMİR Ş., An adjustable impedance matching network using RF MEMS technology, Post Graduate, M.ÜNLÜ(Student), 2003

DEMİR Ş., Stochastic characterization and mathematical analysis of feedforward linearizers, Doctorate, A.HAKAN(Student), 2003

DEMİR Ş., Novel microwave equal and unequal power divider and combiner structures, Doctorate, E.TURAN(Student), 2003

DEMİR Ş., An Approach of thinning planar phased array antenna by using finite difference method, Post Graduate, A.CEMİL(Student), 2002

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Development and Modeling of a Wafer-Level BCB Packaging Method for Capacitive RF MEMS Switches**
Comart I., Cetintepe C., Sagioglu E., DEMİR Ş., AKIN T.
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol.28, pp.724-731, 2019 (Journal Indexed in SCI)
- **Highly efficient dual-band GaN power amplifier utilising pin diode-based tunable harmonic load matching**
Kilic H. H. , Demir S.
IET MICROWAVES ANTENNAS & PROPAGATION, vol.13, pp.63-70, 2019 (Journal Indexed in SCI)
- **Investigation of graphene-integrated tunable metamaterials in THz regime**
DEMİR Ş., Yuksek Y., Sabah C.
PRAMANA-JOURNAL OF PHYSICS, vol.90, 2018 (Journal Indexed in SCI)
- **A folded leg Ka-band RF MEMS shunt switch with amorphous silicon (a-Si) sacrificial layer**
Demirel K., Yazgan E., Demir Ş., Akın T.
MICROSYSTEM TECHNOLOGIES-MICRO-AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS, vol.23, pp.1191-1200, 2017 (Journal Indexed in SCI)
- **A New Temperature-Tolerant RF MEMS Switch Structure Design and Fabrication for Ka-Band Applications**
Demirel K., Yazgan E., Demir Ş., Akın T.
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol.25, pp.60-68, 2016 (Journal Indexed in SCI)
- **Cantilever type radio frequency microelectromechanical systems shunt capacitive switch design and fabrication**
Demirel K., Yazgan E., Demir Ş., Akın T.
JOURNAL OF MICRO-NANOLITHOGRAPHY MEMS AND MOEMS, vol.14, 2015 (Journal Indexed in SCI)
- **A fabrication process based on structural layer formation using Au-Au thermocompression bonding for RF MEMS capacitive switches and their performance**
Cetintepe C., Topalli E. S. , Demir Ş., Civi O. A. , Akın T.
INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES, vol.6, pp.473-480, 2014 (Journal Indexed in SCI)
- **Multipath Characteristics of Frequency Diverse Arrays Over a Ground Plane**
Cetintepe C., DEMİR Ş.
IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.62, pp.3567-3574, 2014 (Journal Indexed in SCI)
- **Microwave Characterization of a Wafer-Level Packaging Approach for RF MEMS Devices Using Glass**

Frit Bonding

Comart I., Topalli K., DEMİR Ş., AKIN T.

IEEE SENSORS JOURNAL, vol.14, pp.2006-2011, 2014 (Journal Indexed in SCI)

A low-order nonlinear amplifier model with distributed delay terms

YÜZER A. H. , DEMİR Ş.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, pp.1007-1016, 2014

(Journal Indexed in SCI)

Height Estimation for Ballistic Platforms using Differential Measurements

Vural A., Sengul O., DEMİR Ş., Hizal A.

IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.49, pp.2657-2665, 2013 (Journal Indexed in SCI)

A 15-40-GHz Frequency Reconfigurable RF MEMS Phase Shifter

Ünlü M., Demir Ş., Akın T.

IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.61, pp.2865-2877, 2013 (Journal Indexed in SCI)

Exploitation of Linear Frequency Modulated Continuous Waveform (LFMCW) for Frequency Diverse Arrays

Eker T., DEMİR Ş., Hizal A.

IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, vol.61, pp.3546-3553, 2013 (Journal Indexed in SCI)

Triple stub circuit topology as simultaneous insertion phase, amplitude and impedance control circuit for phased array applications

Unlu M., Demir Ş., Akın T.

IET MICROWAVES ANTENNAS & PROPAGATION, vol.6, pp.1399-1406, 2012 (Journal Indexed in SCI)

E-plane sectoral horn power divider

Secmen M., DEMİR Ş., Hizal A.

IET MICROWAVES ANTENNAS & PROPAGATION, vol.4, pp.191-199, 2010 (Journal Indexed in SCI)

Hybrid connection of RF MEMS and SMT components in an impedance tuner

Unlu M., Topalli K., Atasoy H. I. , Demir Ş., Civi O. A. , Akın T.

AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.64, pp.748-756, 2010 (Journal Indexed in SCI)

Tunable dual-frequency RF MEMS rectangular slot ring antenna

Topalli K., Erdil E., Civi O. A. , Demir Ş., Koc S., Akın T.

SENSORS AND ACTUATORS A-PHYSICAL, vol.156, pp.373-380, 2009 (Journal Indexed in SCI)

EMPIRICAL FORMULATION OF BRIDGE INDUCTANCE IN INDUCTIVELY TUNED RF MEMS SHUNT SWITCHES

Topalli K., Unlu M., Atasoy H. I. , Demir Ş., Civi O. A. , Akın T.

PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.97, pp.343-356, 2009 (Journal Indexed in SCI)

EMPIRICAL FORMULATION OF BRIDGE INDUCTANCE IN INDUCTIVELY TUNED RF MEMS SHUNT SWITCHES

Topalli K., ÜNLÜ M., Atasoy H. İ. , AYDIN ÇİVİ H. Ö. , DEMİR Ş., AKIN T.

PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.97, pp.343-356, 2009 (Journal Indexed in SCI)

A monolithic phased array using 3-bit distributed RF MEMS phase shifters

Topalli K., Civi O. A. , Demir Ş., Koc S., Akın T.

IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, vol.56, pp.270-277, 2008 (Journal Indexed in SCI)

Zero crossing counter for accuracy improvement of FMCW range detection

Kurt S., DEMİR Ş., Hizal A.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.16, pp.125-132, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Prospects of FMCW-based frequency diverse array radar**
Cetiner R., Cetintepe C., DEMİR Ş., Hizal A.
JOURNAL OF ENGINEERING-JOE, vol.2019, pp.7299-7303, 2019 (Journal Indexed in ESCI)
- **Space scanning FMCW-based two-dimensional frequency diverse array radar**
KARADAĞ S., DEMİR Ş., Hizal A.
JOURNAL OF ENGINEERING-JOE, vol.2019, pp.6452-6456, 2019 (Journal Indexed in ESCI)
- **Waveguide multiplexer: miniaturized contiguous-band six-channel multiplexer structure**
Sevinc Y., DEMİR Ş.
JOURNAL OF ENGINEERING-JOE, 2017 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- **A Multi-Box Behavioural Mixer Model and its Validation using Measurements**
Ozgun A., Nesimoglu T., DEMİR Ş.
IEEE-MTT-S International Microwave Symposium (IMS), Massachusetts, United States Of America, 2 - 07 June 2019, pp.607-610
- **Design and Implementation of Transmitting and Receiving Antenna Pair on Flat Ring Surface**
Haykir Y., Karadag S., Dagdeviren B., Demir S.
18th Mediterranean Microwave Symposium (MMS), İstanbul, Turkey, 31 October - 02 November 2018, pp.36-38
- **Design Studies of Axial Vircator for High Power Microwave Generation**
KÜÇÜK İ. S., TİMUR B., Tanc Z., DEMİR Ş.
4th International Electromagnetic Compatibility Conference (EMC Türkiye), Ankara, Turkey, 24 - 27 September 2017
- **Non-Uniformly Spaced Planar Phased Array Antenna for Ku-Band Mobile Direct Broadcasting Satellite Reception Systems**
Sahin L., Ozyurt E., Kapusuz K. Y. , DEMİR Ş., Sen Y., Oguz U.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.203-207
- **Monopulse Direction Finding For Linear Frequency Modulation Based Frequency Diverse Array**
Turhaner A., DEMİR Ş., Hizal A.
IEEE Radar Conference (RadarConf), Washington, United States Of America, 8 - 12 May 2017, pp.89-94
- **Range and Angle Measurement in a Linear Pulsed Frequency Diverse Array Radar**
Cetiner R., DEMİR Ş., Hizal A.
IEEE Radar Conference (RadarConf), Washington, United States Of America, 8 - 12 May 2017, pp.64-67
- **Ka-Band Phased Array Antenna with Circular Rim**
Bayraktar O., Sevinc Y., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S.
IEEE International Symposium on Antennas and Propagation / USNC/URSI National North American Radio Science Meeting, Vancouver, Canada, 19 - 24 July 2015, pp.2479-2480
- **RF MEMS Based Millimeter Wave Phased Array for Short Range Communication**
Bayraktar O., Kobal E., Sevinc Y., Cetintepe C., Comart I., Demirel K., Topalli E. S. , Akın T., Demir Ş., Civi O. A.
9th European Conference on Antennas and Propagation EuCAP, Lisbon, Portugal, 13 - 17 May 2015
- **15 W Power Amplifier Modules Using Coaxial Waveguide Combining by Planar Probes**
Suna G., Eker T., Akkul M., Incebacak M., Demir S., Ylilitim N.
IEEE Antennas-and-Propagation-Society International Symposium (APSURSI), Tennessee, United States Of America, 6 - 11 July 2014, pp.647-648
- **Examination of Target RCS Characteristics in FDA Radars**
Cetintepe C., DEMİR Ş.
IEEE Antennas-and-Propagation-Society International Symposium (APSURSI), Tennessee, United States Of America,

6 - 11 July 2014, pp.1754-1755

Comparison of Efficient Power Combining Techniques

Suna G., Akkul M., DEMİR Ş., YILDIRIM N.

Joint USNC-URSI Radio Science Meeting / AP-S Symposium, Tennessee, United States Of America, 6 - 11 July 2014, pp.216

Memory Polynomial with Shaped Memory Delay Profile and Modeling the Thermal Memory Effect

YÜZER A. H. , Bassam S. A. , Ghannouchi F. M. , DEMİR Ş.

2013 IEEE International Conference on Electronics, Circuits, and Systems, Abu Dhabi, United Arab Emirates, 8 - 11 December 2013, pp.585-588

A Fabrication Process Flow for Stacked Structural Layer Formation Using Au Au Thermocompression Bonding for RF MEMS Capacitive Switches

Topallı E., Çetintepe Ç., Aydın Çivi H. Ö. , Demir Ş., Akın T.

14th Int. Symposium on RF-MEMS and RF-Microsystems, Potsdam, Germany, 1 - 03 July 2013

Calibration Quality Analysis of Phased Array Antennas

Kilic O., Yalim A., Cetintepe C., DEMİR Ş.

IEEE International Symposium on Antennas and Propagation, Illinois, United States Of America, 8 - 14 July 2012

Reconfigurable antennas using RF-MEMS research in Turkey

Civi O. A. , Demir Ş., Akın T.

2011 IEEE MTT-S International Microwave Symposium, IMS 2011, Baltimore, MD, United States Of America, 5 - 10 June 2011

35 GHz phased array antenna using DMTL phase shifters

Guclu C., Cetintepe C., Civi O. A. , DEMİR Ş., AKIN T.

2010 10th Mediterranean Microwave Symposium, MMS 2010, Guzelyurt, Cyprus (Gkry), 25 - 27 August 2010, pp.114-117

X band High Power Ferrite Phase Shifter

Altan H., AYDIN ÇİVİ H. Ö. , DEMİR Ş.

10th Mediterranean Microwave Symposium (MMS 2010), 25 - 27 August 2010

Behavioral Modeling of Asymmetric Intermodulation Distortion of Nonlinear Amplifier

Yuzer A. H. , DEMİR Ş.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.1115-1119

A New Phase Measurement Technique for RF Power Amplifier Only Measuring Magnitudes

Yuzer A. H. , DEMİR Ş.

Progress in Electromagnetics Research Symposium, Cambridge, Canada, 5 - 08 July 2010, pp.170-173

RF MEMS Teknolojisi ile S Bandı Tümüleşik Bant Geçiren Filtre Yapısı

ÇETİNTEPE Ç., DEMİR Ş., AKIN T.

URSI-Türkiye 2008 4. Bilimsel Kongresi, Antalya, Turkey, 20 - 22 October 2008, pp.137-140

Reconfigurable RF MEMS Devices and Antennas

Kaan T., Ünlü M., İstanbulluoğlu İ., Atasoy H. İ. , Bayraktar Ö., Aydın Çivi H. Ö. , Demir Ş., Koç S. S. , Akın T.

5th International Conference on Electrical and Electronics Engineering (ELECO 2007), Bursa, Turkey, 5 - 09 December 2007

Beam switching reflectarray using RF MEMS technology

Bayraktar O., Topallı K., Unlu M., Civi O., Demir Ş., Akın T.

2nd European Conference on Antennas and Propagation, EuCAP 2007, Edinburgh, United Kingdom, 11 - 16 November 2007, vol.2007

Monolithically Integrated MEMS Phased Array

Topallı K., Aydın Çivi H. Ö. , Demir Ş., Koç S. S. , Akın T.

Proceedings of 8th International Symposium on RF MEMS and RF Microsystems, MEMSWAVE, Barcelona, Spain, 26 - 29 June 2007, pp.119-122

Dual-frequency reconfigurable slot dipole array with a CPW-based feed network using RF MEMS technology for X- and Ka-band applications

Topallı K., Civi Ö. A. , Demir Ş., Koc S., Akın T.

2007 IEEE Antennas and Propagation Society International Symposium, AP-S, Honolulu, HI, United States Of America, 10 - 15 June 2007, pp.825-828

● **Investigation of on-wafer TRL calibration accuracy dependence on transitions and probe positioning**

Atasoy H., Unlu M., Topalli K., Istanbuluoglu I., Temocin E., Bayraktar O., Demir Ş., Civi O., Koç S. S., Akın T.
36th European Microwave Conference, EuMC 2006, Manchester, United Kingdom, 10 - 12 September 2006, pp.1582-1585

● **A reconfigurable RF MEMS triple stub impedance matching network**

Unlu M., Topalli K., Atasoy H., Temocin E., Istanbuluoglu I., Bayraktar O., Demir Ş., Civi O., Koç S. S., Akın T.
36th European Microwave Conference, EuMC 2006, Manchester, United Kingdom, 10 - 12 September 2006, pp.1370-1373

● **Design and implementation of a triple-band re-configurable microstrip antenna**

Onat S., ALATAN L., DEMİR Ş.

European Conference on Wireless Technologies, Manchester, United Kingdom, 10 - 12 September 2006, pp.326-327

● **RF MEMS Teknolojisi ile Tek Parça Faz Dizili Anten Yapisi**

TOPALLI K., ÜNLÜ M., AYDIN ÇİVİ H. Ö., DEMİR Ş., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.413-415

● **TRL Kalibrasyonunda Uç Konumlandırması ve Geçişlerin Etkileri**

ATASOY H. İ., ÜNLÜ M., TOPALLI K., İSTANBULLUOĞLU İ., TEMOÇİN E. U., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Turkey, 6 - 08 September 2006, pp.426-428

● **RF MEMS Teknolojisi ile Ayarlanabilir Empedans Uyumlama Devresi**

ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.407-409

● **RF MEMS Teknolojisi Kullanılarak Tasarlanmış Ayarlanabilir Bant Geçiren Bağlanmış Hat Süzgeç**

İSTANBULLUOĞLU İ., TOPALLI K., TEMOÇİN E. U., ATASOY H. İ., ÜNLÜ M., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.416-418

● **RF MEMS Teknolojisi ile Kapasitif ve Metal Metal Bağlantılı Paralel Anahtar Yapıları**

ATASOY H. İ., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ENGİN UFUK T., ÖMER B., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Turkey, 6 - 08 September 2006, pp.410-412

● **Esdüzlemsel Dalga Klavuzundan Mikroserit Hatta Geçiş Üzerine Çalışmalar**

TEMOÇİN E. U., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ATASOY H. İ., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.448-450

● **RF MEMS Teknolojisi ile Yansıtıcı Dizi Anteni Tasarımı**

BAYRAKTAR Ö., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., ENGİN UFUK T., ATASOY H. İ., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

National URSI Symposium Turkey, Ankara, Turkey, 6 - 08 September 2006, pp.438-440

● **Metal to metal and capacitive contact RF MEMS shunt switch structures**

ATASOY H. İ., TOPALLI K., ÜNLÜ M., İSTANBULLUOĞLU İ., TEMOÇİN E. U., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

7th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), 27 - 30 June 2006, pp.154-156

● **A Reconfigurable RF MEMS Impedance Tuner for Impedance Matching of a Two Stage Low Noise Amplifier**

ÜNLÜ M., TOPALLI K., ATASOY H. İ., TEMOÇİN E. U., İSTANBULLUOĞLU İ., BAYRAKTAR Ö., DEMİR Ş., AYDIN ÇİVİ H. Ö., KOÇ S. S., AKIN T.

7th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), 27 - 30 June 2006

● **RF MEMS teknolojisi ile mikroserit ve esdüzlemsel dalga klavuzu hat ustunde paralel anahtar yapıları**

TOPALLI K., ÜNLÜ M., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

National URSI Symposium Turkey, Turkey, 8 - 10 September 2004, pp.370-372

● **Design of a Re-configurable dual frequency microstrip antenna with integrated RF MEMS switches**

Onat S., Ünlü M., Alatan L., Demir Ş., Akın T.

2005 IEEE Antennas and Propagation Society International Symposium and USNC/URSI Meeting, Washington,

United States Of America, 3 - 08 July 2005, pp.384-387

● **Reconfigurable Antenna Structures Using MEMS Technology**

Erdil E., Onat S., Topallı K., İstanbulluoğlu İ., Ünlü M., Demir Ş., Aydın Çivi H. Ö. , Alatan L., Koç S. S. , Akın T.

6th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), Lausanne, Switzerland, 23 - 24 June

2005

● **Sıralanmış MEMS iletim hatları için yeni bir model**

ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

National URSI Symposium Turkey, Turkey, 8 - 10 September 2004, pp.435-437

● **Design and Modeling of a Reconfigurable Triple Stub Impedance Matching Network using Distributed MEMS Transmission Lines**

ÜNLÜ M., TOPALLI K., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

5th Workshop on MEMS for MilimeterWave Communications (MEMSWAVE), 30 June - 02 July 2004

● **RF MEMS Teknolojisi ile Mikrodalga Faz Kaydırıcıları**

SAĞKOL H., ÜNLÜ M., TOPALLI K., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.

URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.138-141

● **RF MEMS Teknolojisi ile Faz Dizili Anten**

TOPALLI K., SAĞKOL H., ÜNLÜ M., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.

URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.134-137

● **RF MEMS Teknolojisi ile Ayarlanabilir Empedans Uyumlama ve Güç Bölücü Devreleri**

ÜNLÜ M., SAĞKOL H., TOPALLI K., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.

URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.142-145

● **Anten Uygulamaları için Yeni MEMS Anahtar Yapıları**

ÜNLÜ M., SAĞKOL H., TOPALLI K., AYDIN ÇİVİ H. Ö. , DEMİR Ş., KOÇ S. S. , AKIN T.

URSI-Türkiye'2002, Turkey, 18 - 20 September 2002, pp.146-149

● **RF MEMS adjustable impedance matching network and adjustable power divider**

Ünlü M., Topallı K., Demir Ş., Aydın Çivi H. Ö. , Koç S. S. , Akın T., Sağkol H.

IEEE Antennas and Propagation Society International Symposium (IEEE Cat. No.02CH37313), Texas, United States

Of America, 16 - 21 June 2002, pp.26-29

● **New MEMS Switch Structures for Antenna Applications**

ÜNLÜ M., TOPALLI K., SAĞKOL H., DEMİR Ş., AYDIN ÇİVİ H. Ö. , KOÇ S. S. , AKIN T.

2002 IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting, 16 - 21 June 2002

Citations

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h-index (WOS):8